

### **Abstract of the Disclosure**

A method of producing chewing gum for remineralization of tooth enamel, including the steps of preparing an aqueous solution of at least one acidifying agent suitable as a foodstuff, adding a reactive calcium source to the aqueous solution, adding the solution to a thickener, wherein phosphoric acid is added during at least one of the preceding steps, thoroughly mixing all of the components to form a gum, and forming and drying the gum. The chewing gum has a calcium content of between 30 and 190 mMol/kg of finished product.